Clay Shumaker

Student

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github.com/Clayal10

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Education

Computer Science BS / Mathematics Minor | Lewis-Clark State College

August 2022 – Present, Lewiston ID

Anticipating graduating spring 2026 (3.98 GPA).
Sat on the promotion board for Computer Science professor Dr. S. Seth Long.
On the Presidential List and have received multiple Academic All-American Awards.

Skills:

C / C++ | Linux / Bash | Git | Test-Driven Development | Agile Development | Scrum
HTML / CSS / JS | SQL | x86 ASM | Python | Azure DevOps | Docker

Projects

Artificial Intelligence Turn-Based Game   C/C++ | OpenGL | Minimax   github.com/Clayal10/connect4

- A 2d graphical game of Connect 4 where you can play against an AI opponent or watch two entities play against each other. Utilizes minimax with alpha-beta pruning as a selection algorithm and OpenGL for GUI.

Neural Network   C++ | Particle Swarm Optimization   github.com/Clayal10/feed_forward_nn

- This is a simple neural network that will learn to calculate sine on a domain of -3π, 3π. This uses particle swarm optimization for finding and training an ideal network in a randomly generated population.

3D Game Engine   C/C++ | OpenGL | GLSL   github.com/Clayal10/game_engine

- This is a medium to small sized 3D game engine that includes player following entities, collision, physics, and projectiles. The game is set up as a maze with a cat roaming around where it is your objective to find an exit.

Experience

STEM Supervisor/ Youth Development Professional | Boys and Girls Club

May 2024 – December 2024, Lewiston ID

I led a grant sponsored by the Idaho Out of School Network which involves teaching high school aged staff to perform and teach STEM related activities. We introduced basic science experiments and Scratch programming to youth aged 5 – 10.

I Implemented a DNS server using a Raspberry PI and Pi-hole to act as an ad-blocker and site restrictor for the youth.

Sales and Service / Les Schwab Tires

December 2019 – December 2023 / Meridian ID

Handled the input and organization of freight for the store. I have trained new and veteran employees in assisting with inventory management.

Community Involvement

Cross Point Alliance Church / Worship Team

I am a member of our church's Worship Leader Cohort for musically and technically leading Sunday worship. I have been actively serving in my church since November of 2022.